

Title (en)

FORGING DIES WITH INTERNAL HEATING SYSTEM

Title (de)

SCHMIEDEGESENKE MIT INTERNEM HEIZSYSTEM

Title (fr)

MATRICES DE FORGEAGE AVEC SYSTÈME DE CHAUFFAGE INTERNE

Publication

EP 3137243 B1 20231011 (EN)

Application

EP 14736058 A 20140502

Priority

TR 2014000184 W 20140502

Abstract (en)

[origin: WO2015167407A1] The invention relates to a die heating system that is developed for preheating and continuous heating of forging dies (12) internally. The dies (12) are provided with channels (13) in which electrical heating cartridges (15) are placed with built-in thermocouples (16) monitored by a PID thermostat. The channels are located optimally in a zone (C) close to the die cavity for efficient heating but outside the zones of high forging load (D) or of rework requirement (B) or of high forging load after rework (A).

IPC 8 full level

B21K 29/00 (2006.01); **B21J 1/06** (2006.01); **B21J 13/02** (2006.01)

CPC (source: EP US)

B21J 1/06 (2013.01 - EP US); **B21J 13/02** (2013.01 - EP US); **B21K 29/00** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2015167407 A1 20151105; EP 3137243 A1 20170308; EP 3137243 B1 20231011; US 10124395 B2 20181113;
US 2017066039 A1 20170309

DOCDB simple family (application)

TR 2014000184 W 20140502; EP 14736058 A 20140502; US 201415308362 A 20140502